Substitute for Form 1449/PTO INFORMATION DISCLOSURE					Complete if Known			
					Application Number	10/750,715		
			Filing Date	December 31, 200	5			
j ST		ENT BY API	First Named Inventor:	Newburn, et al.				
2	(use a	s many sheets as neces	ssary)		Art Unit	2187		
					Examiner Name Farrokh, Hashe			
Sheet	1	of		1	Attorney Docket Number	ocket Number 42P18598		
			U.S. PATENT I	OCUMENTS		,		
Examiner Cite I	No.'	Document Number Number-Kind Code ² (If known)		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Docume	nt Where Releval	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
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Examiner	Date Considered	
Signature		

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-785-9199) and select option 2.

Based on Form PTO/SB/08A (08-03) as modified by BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP on 09/10/03.

Substitute for Form 1449/PTO				Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT			OSUBE	Application Number 10/750,715			
				Filing Date	December 31, 2005		
				First Named Inventor:	Newburn, et al.		
	(use as n	nany sheets as neces	sary)	Art Unit 2187			
Ÿ				Examiner Name	Farrokh, Hashem		
Sheet	1	of	1	Attomey Docket Number	42P18598		
		REL	ATED PATENT A	PPLICATION INFORMATION	N		
Examiner Cite Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published							
		First Foreign Office Action from Counterpart Chinese Patent Application No. 200480039058.1 (Attorney Docket No. 42P18598CN) mailed June 22, 2007, English Translation included (9 pgs.)					
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Examiner Signature					Date Considered		

^{*}Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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¹This collection of information is required by 37 CFR 1.99. The Information is required to obtain or retain a benefit by the public which is to file (and by the USPYO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPYO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

If you need assistance in completing the form, cell 1-800-PTO-9199 (1-800-786-9199) and select option 2.

THE PATENT OFFICE OF THE STATE INTELLECTUAL PROPERTY OFFICE OF THE PEOPLE'S REPUBLIC OF CHINA

Address: No.6 Xi Tucheng Lu, Jimeng Qiao Haidian District, Beijing Post code: 100088 P.Q.BOX: Beijing 8020 Date of Dispatch Shanghai Patent & Trademark Law Office June 22, 2007 Application No.: 200480039058.1 Applicant: INTEL CORPORATION Application Date: December 22, Agent; 2004 Title: PROCESSOR AND MEMORY CONTROLLER CAPABLE OF USE IN COMPUTING SYSTEM THAT EMPLOYS COMPRESSED CACHE ... THE FIRST OFFICE ACTION (PCT APPLICATION IN THE NATIONAL PHASE) 1. According to the Request for Substantive Examination raised by the applicant and based on the provision of Item 1, Article 35 of the Patent Law, the Examiner has proceeded with the Examination as to Substance on the above mentioned application for patent for invention. According to Item 2, Article 35 of the Chinese Patent Law, the Patent Office has decided to examine the above application for patent for invention. Dec 31, 2003 at the US Patent Office as the priority date, ____ at the ____ Patent Office as the priority date, at the _____ Patent Office as the priority date, to the provision of Article 33 of the Patent Law: The Chinese version of the attachment of the International Preliminary Examination Report. The Chinese version of the amended document submitted according to the provision of Rule 19 of the Patent Cooperation Treaty. The amended document submitted according to the provision of Rule 28 or Rule 41 of the Patent Cooperation Treaty. The amended document submitted according to the provision of Rule 51 of the Implementing Regulations of the Patent Law. Refer to the text of the notice for the specific reason of non-acceptance thereof. 4.

The examination is conducted by directing at the Chinese version of the original International Application submitted. ☐ The examination is conducted by directing at the following application documents: Description, p. ____, the Chinese version of the original International Application Document submitted; p. ____, the Chinese version of the attachment of the International Preliminary Examination Report; p. _____, the amended document submitted according to the provision of Rule 28 or Rule 41 of

	the Patent Cooperation Treaty.	ed according to the provision of Rule 51 of the					
	Implementing Regulations of the Patent	to according to the provision of Rule 51 of the					
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	the Chinese version of the original in	nternational Application Document submitted.					
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5.	This Notice cites the following Comparison Docum	ant/the armin 5 11 ()					
	in the subsequent examination proceedings):	endine number of which shall continue to be used					
		Dec of D.H.					
	No. Number/Title of Document	Date of Publication (or the filing date of the					
	1 US6640283B2	conflicting Application) 2003.10.28					
		2003.10.28					
6 .	The conclusive opinion drawn from the examination	n·					
	As regards the Specification:	1,					
	The contents of the application fall under the so	The estimates the same					
	which no patent right should be granted.	the supulated by Article 5 of the Patent Law for					
	The specification does not conform with the provi	sion of Itam 2 and 1 ac					
	The drafting of the specification does not conform	Stoll of them 3, Article 26 of the Patent Law.					
	Implementing Regulations.	with the provision of Rule 18 of the					
	As regards the Claims:						
	Claim does not possess the novelty as stip	sloted in terms of a six and a					
	Claim 1-2 does not possess the inventiveness as a	final in Item 2, Article 22 of the Patent Law.					
	Claim 1-2 does not possess the inventiveness as stipulated in Item 3, Article 22 of the Patent Law. Claim does not possess the practical applicability as stipulated in Item 4, Article 22 of the Patent Law.						
	Patent Law.	ability as stipulated in Item 4, Article 22 of the					
	Claim falls under the scope of Article 25 o	Tthe Decement					
	3						
	Claim does not conform with the provision	of Item 4. Article 25 - 54 . D					
	- Coco not comoni with the provision	Of Item Aminha 21 Cut min					
	Claim does not conform with the provision	of Item 1. Puls 12 acres 1.					
	Regulations of the Patent Law.	or the implementing					

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	Claim does not conform with the provision of Rule 18 of the Implement the Patent Law. Claim does not conform with the provisions of Rules 20 of the Implement of the Potent Law.	
	Claim does not conform with the provisions of Rules 21 of the Implem	
	of the Patent Law. Claim does not conform with the provisions of Rules 22 of the Implem	
	of the Falcht Law.	
	Claim does not conform with the provisions of Rules 23 of the Implem of the Patent Law.	enting Regulation
	Refer to the text of this Notice for the specific analyses of the conclusive opinion.	
7.	Based on the above conclusive opinion, the Examiner deems that:	
	The applicant shall amend the application documents in accordance with the requirements of the Notice.	
	The applicant shall discuss in his observations reasons why this application for pat a patent right, and amend the portions indicated in the text of the Notice which have not conforming with the provisions, or no patent right shall be granted.	re been deerned as
	There are no substantive contents in the application for patent that can be granted a applicant does not present reasons or the reasons presented are not sufficient, the a rejected.	patent right. If the oplication shall be
8.	The applicant is asked to note the following items:	
	(1) According to the provision of Article 37 of the Patent Law, the applicant observations within <u>four months</u> from the receipt of this Notice. Where, without the applicant does not respond at the expiration of said date, the application shall been withdrawn.	justified reasons, e deemed to have
	(2) The applicant shall amend his application according to Article 33 of the Patent La documents shall be in duplicate, and the form, in conformity with the relevant Examination Guide.	provisions in the
	(3) The applicant and/or his agent can not, without first making an appointment, go to to have an interview with the Examiner.	
((4) The observations and/or the amended documents shall be mailed or delivered to the Receipt, the Patent Office of the State Intellectual Property Office. No documents shall be mailed or delivered to the Department of Receipt.	ne Department of
9. T	The text of this Notice totals 2 page(s), and includes the following attachment(s): duplicate copy(ies) of cited comparison document(s), altogether copy(ies)	pages.
Exami	nination Department: Examiner(Seal):	
	062	400 10000

SHANGHAI PATENT & TRADEMARK LAW OFFICE, LLC

TEXT OF THE FIRST OFFICE ACTION

TEXT OF THE FIRST OFFICE ACTION

Application Number: 200480039058.1

The present application relates to a memory controller. After examination, the office action is now provided as follows:

- 1. Claim 1 asks to protect a memory controller. Reference 1 (US6640283B2) disclosed a cache that can provide compression, and the following technical features were specifically revealed (see line 66 in column 4 to line 55 in column 6 of the Description, and Figure 2): the second level cache 106 can compress and decompress the data stored in the cache, and thereby data of more than one sublines can be compressed within one subline so as to release more free spaces; the cache 106 has a tag memory 204 (corresponding to the compression map cache); the pointer of the tag memory 204 points to the compressed flag 212 (corresponding to the compressed cache) associated with each of the sublines; the compressed flag 212 is used for identifying whether the data in the subline is compressed; therefore, the cache 106 must have a controller to control the compression and decompression of data and the configuration of the compression tag. Comparing the technical solution protected by Claim 1 with the contents disclosed by Reference 1, the only difference is in that the compression map cache is comprised in the memory controller. Based on this distinguishing feature, it can be determined that the technical problem to be solved by the present invention is to provide a method of providing the compression map cache in the memory controller. However, it is common knowledge in the art that the compression map cache can be put in the memory controller. No matter whether the compression map cache is put inside the memory controller or outside the memory controller, it is the same in performing the function of the memory controller. Therefore, it is obvious for those skilled in the art to obtain the technical solution protected by this claim on the basis of Reference 1 by combining the common knowledge. Thus, it does not possess prominent substantive features or represent a notable progress, and thus does not possess the inventiveness as stipulated in Item 3, Article 22 of the Patent Law.
 - 2. Claim 2 asks to protect a processor and a memory controller integrated on a

Page I of 2

SHANGHAI PATENT & TRADEMARK LAW OFFICE, LLC

TEXT OF THE FIRST OFFICE ACTION

same semiconductor die. Reference 1 (US6640283B2) disclosed a cache that can provide compression, and the following technical features were specifically revealed (see line 66 in column 4 to line 55 in column 6 of the Description, and Figure 2): the second level cache 106 and the processor are integrated on a same semiconductor die; the second level cache 106 can compress and decompress the data stored in the cache, and thereby data of more than one sublines can be compressed within one subline so as to release more free spaces; the cache 106 has a tag memory 204 (corresponding to the compression map cache); the pointer of the tag memory 204 points to the compressed flag 212 (corresponding to the compressed cache) associated with each of the sublines; the compressed flag 212 is used for identifying whether the data in the subline is compressed; therefore, the cache 106 must have a controller to control the compression and decompression of data and the configuration of the compression tag. Comparing the technical solution protected by Claim 1 with the contents disclosed by Reference 1, the only difference is in that the compression map cache is comprised in the memory controller. Based on this distinguishing feature, it can be determined that the technical problem to be solved by the present invention is to provide a method of providing the compression map cache in the memory controller. However, it is common knowledge in the art that the compression map cache can be put in the memory controller. No matter whether the compression map cache is put inside the memory controller or outside the memory controller, it is the same in performing the function of the memory controller. Therefore, it is obvious for those skilled in the art to obtain the technical solution protected by this claim on the basis of Reference 1 by combining the common knowledge. Thus, it does not possess prominent substantive features or represent a notable progress, and thus does not possess the inventiveness as stipulated in Item 3, Article 22 of the Patent Law.

Based on the above reasons, all of the independent claims of the present application do not possess inventiveness. The application still has no prospect of being granted a patent right. If the applicant does not state convincing reasons that the present application has inventiveness within the time limit specified by the present notification, the present application will be rejected.

中华人民共和国国家知识产权局

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200233 发文日 上海桂平路 435 号 上海专利商标事务所有限公司 李玲 申请号:2004800390581 申请人:英特尔公司 发明名称。能在使用压缩的高速缓存行信息价值的计算系统中使用的处理器和存储器控制器

第一次审查意见通知书

(进入国家阶段的 PCT 申请)

1. ②应申请人提出的实审请求, 根据专利法第35条第1款的规定, 国家知识产权局对上述发明专利申请 进行实质审查。

□根据专利法第 35 条第 2 款的规定,国家知识产权局专利局决定自行对上述发明专利申请进行审查。

2. 图甲诺人要求	以其在:						~29 4 4 3 4 時 2	AC 11 44.
3. □申请人于 经审查,申请。	专利 专利 年 月		年 年 月 日以	月 月 【及	日为优先 年 月	权日, 权日。 日 提 交了值	改文件。 51 条第 1 款 的	规定。
4. ②审查是针对	原始提交的	国际申请的中	女孩女讲	~66				
□审查是针	付下述申请	文件进行的。	~ ~~~~	1 110				
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回函请寄。100088 北京市海淀区部门桥西土坡路 6 号 国家知识产权局专利局受理处收 (注:凡寄给审查员个人的信函不具有法律效力)

I

申请号 2004800390581 ②本通知书引用下述对比文件(其编号在今后的审查过程中继续沿用): 编号 文件号或名称 公开日期 (或抵触申请的申请日) US6640283B2 2003年10月28日 5. 审查的结论性意见: □关于说明书:]申请的内容属于专利法第5条规定的不投予专利权的范围。 说明书不符合专利法第26条第3款的规定。 说明书不符合专利法第 33 条的规定。 说明书的撰写不符合专利法实施细则第 18 条的规定。 ✓关于权利要求书。 □ 权利要求 ☑ 权利要求 不具备专利法第 22 条第 2 款规定的新额性。 不具备专利法第22条第3款规定的创造性。 权利要求 不具备专利法第22条第4数规定的实用性。 权利要求 属于专利法第25条规定的不投予专利权的范围。 不符合专利法第26条第4款的规定。 |収利要求 权利要求 不符合专利法第 31 条第 L 款的规定。 不符合专利法第 33 条的规定。 权利要求 不符合专利法实施细则第2条第1款的规定 权利要求 权利要求 不符合专利法实施细则第13条第1款的规定。 □权利要求 不符合专利法实施细则第20条的规定。 不符合专利法实施细则第21条的规定。 |枚利要求 权利要求 权利要求 不符合专利法实施细则第22条的规定。 不符合专利法实施细则第23条的规定。 □分案的申请不符合专利法实施细则第43条第 L 款的规定。 上述结论性意见的具体分析见本通知书的正文部分。 6. 基于上述结论性意见,审查员认为,
□申请人应按照通知书正文部分提出的要求,对申请文件进行修改。 申请人应在意见陈途书中论述其专利申请可以被授予专利权的理由,并对通知书正文部分中指出的 不符合规定之处进行修改,否则将不能投予专利权。 过专利申请中没有可以被投予专利权的实质性内容,如果申请人没有陈述理由或者陈述理由不充分, 7. 申请人应注意下述事项: (1)根据专利法第37条的规定,申请人应在收到本通知书之日起的壁个月内陈述意见,如果申请人无正当 (2)申请人对其申请的修改应符合专利法第33条的规定。修改文本应一式两份,其格式应符合审查指南的 (3)申请人的意见陈述书和/或修改文本应邮务或递交园家知识产权局专利局受理处,凡未邮务或递交给受理处的文件不具备法律效力。 (4)未经预约,申请人和/或代理人不得前来国家知识产权局专利局与审查员举行会晤。8.本通知书正文部分共有 2 页,并附有下述附件, □引用的对比文件的复印件共

审查员, 张坦(A539) 2007年5月25日



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审查部门

电学发明审查部

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回语请寄。100088 北京市海淀区新门桥西土城路 6号 国家知识产权局专利局受理处收 (注,凡寄给审查员个人的信函不具有法律效力)

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中华人民共和国国家知识产权局

第一次审查意见通知书正文

申请号: 2004800390581

本申请涉及一种存储器控制器,经审查,现提出如下审查意见。

- 1、权利要求1请求保护一种存储器控制器,对比文件1 (US6640283B2)公开了一 种能进行压缩的高速缓存,并具体公开了如下技术特征(参见说明书第4栏第66行至 第6栏第55行,图2):二级高速缓存106能够对存储在高速缓存中的数据进行压缩及解 压缩,因而超过一个的子行中的数据可被压缩在一个子行中,以释放出更多的空闲空 间, 高速缓存106中具有标记存储器204 (相当于压缩映象高速缓存), 标记存储器204 的指针指向与每个子行相联系的压缩标志212(相当于压缩高速缓存),该压缩标志 212用于标识该子行中的数据是否被压缩,因而该高速缀存106中必然具有控制器来控 制数据的压缩、解压缩和压缩标志的设置。权利要求1所请求保护的技术方案与对比 文件1中公开的内容相比, 其区别在于权利要求1中的压缩映象高速缓存包括在存储器 控制器中, 基于该区别技术特征可以确定本发明实际要解决的技术问题是提供一种将 压缩映象高速缓存放置于存储器控制器中的方式,但对于本领域的技术人员来说可将 压缩映象高速缓存放置于存储器控制器中属于本领域的公知常识,无论是将压缩映象 高速缓存放置于存储器控制器中还是存储器控制器外部的其它部件中,在实现存储器 控制器的功能上是一致的。因而在对比文件I的基础上结合公知常识,得到该权利要 求所请求保护的技术方案,对于本领域的技术人员来说是显而易见的,不具有突出的 实质性特点和显著的进步, 因此该权利要求不具有专利法第二十二条第三款规定的创 造性。
- 2、权利要求2请求保护一种集成于同一半导体管芯上的处理器和存储器控制器,对比文件1(US6640283B2)公开了一种能进行压缩的高速缓存,并具体公开了如下技术特征(参见说明书第4栏第66行至第6栏第55行,图1-2):二级高速缓存106与处理器集成在一个芯片上,二级高速缓存106能够对存储在高速缓存中的数据进行压缩及解压缩,因而超过一个的子行中的数据可被压缩在一个子行中,以释放出更多的空闲空间;高速缓存106中具有标记存储器204(相当于压缩映象高速缓存),标记存储器204的指针指向与每个子行相联系的压缩标志212(相当于压缩高速缓存),该压缩标志212用于标识该子行中的数据是否被压缩,因而该高速缓存106中必然具有控制器来控制数据的压缩、解压缩和压缩标志的设置。权利要求2所请求保护的技术方案与对比文件1中公开的内容相比,其区别在于权利要求2中的压缩映象高速缓存包括在存储器控制器中,基于该区别技术特征可以确定本发明实际要解决的技术问题是提供一种将压缩映象高速缓存放置于存储器控制器中的方式,但对于本领域的技术人员来说可将压缩映象高速缓存放置于存储器控制器中属于本领域的公知常识,无论是将压缩映象高速缓存放置于存储器控制器中属于本领域的公知常识,无论是将压缩映象高速缓存放置于存储器控制器中属于本领域的公知常识,无论是将压缩映象高速缓存放置于存储器控制器中属于本领域的公知常识,无论是将压缩映象高速缓存放置于存储器控制器中属于本领域的公知常识,无论是将压缩映象高速缓存放置于存储器控制器中属于本领域的公知常识,无论是将压缩映象高速缓存放置于存储器控制器中属于本领域的公知常识,无论是将压缩映象高速缓存放置于存储器控制器中属于本领域的公知常识,无论是将压缩映象高速缓存放置于存储器控制器中属于本领域的公知常识,

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象高速缀存放置于存储器控制器中还是存储器控制器外部的其它部件中,在实现存储器控制器的功能上是一致的。因而在对比文件1的基础上结合公知常识,得到该权利要求所请求保护的技术方案,对于本领域的技术人员来说是显而易见的。不具有突出的实质性特点和显著的进步,因此该权利要求不具有专利法第二十二条第三款规定的创造性。

基于上述理由,本申请的独立权利要求都不具备创造性,本申请不具备被授予专利权的前景。如果申请人不能在本通知书规定的答复期限内提出表明本申请具有创造性的充分理由,本申请将被驳回。

审查员: 张坦 代码: A539



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